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STIC Search Report

EIC 3600

STIC Database Tracking Number: 10/038377

Jeffrey Shapiro
Location Knx5A41
Art Unit: 3617
Employee# 77498
Wednesday, March 25, 2009
Case Serial Number: 10/038377

From: Etelka R. Griffin
Location: EIC 3600
KNOX/4B68
Phone: 571-272-4230

Etelka.griffin@uspto.gov

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071024 (09) 5967264 October 19, 1999

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

5967264

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October 19, 1999

Method of monitoring item shuffling in a post-scan area of a self-service checkout terminal

REISSUE: October 19, 2001 - Reissue Application filed Ex. Gp.: 3652; Re. S.N. 10/038,377 (O.G. April 23, 2002)

APPL-NO: 071024 (09)

FILED-DATE: May 1, 1998

GRANTED-DATE: October 19, 1999

ASSIGNEE-PRE-ISSUE: May 1, 1998 - ASSIGNMENT OF ASSIGNS INTEREST (SEE DOCUMENT FOR DETAILS),, NCR CORPORATION 1700 S. PATTERSON BLVD. LAW DEPARTMENT DAYTON, OHIO, 45479, Reel and Frame Number: 009136/0421

ASSIGNEE-AT-ISSUE: NCR Corporation, Dayton, Ohio, United States (US), United States company or corporation (02)

CORE TERMS: post-scan, sub, processing, user, terminal, log, checkout, self-service, decrease, routine ...

ENGLISH-ABST:

A method of monitoring item shuffling in a post-scan area of a self-service checkout terminal having a post-scan shelf, a bagwell with a grocery container positioned therein, and a weight scale positioned so as to detect weight of items positioned both on the post-scan shelf and in the grocery container, includes the step of detecting removal of a first number of items from the post-scan shelf with the weight scale and generating a first weight decrease value in response thereto which corresponds to the weight of the first number of items. The method also includes the step of detecting placement of a second number of items into the grocery container with the weight scale and generating a first weight increase value in response thereto which corresponds to the weight of the second number of items. The method further

Includes the step of comparing the first weight decrease value to the first weight increase value and generating a first match control signal in response thereto if the first weight decrease value matches the first weight increase value.

Source: [Legal > Area of Law - By Topic > Patent Law > Find Patents > More U.S. Patents > Utility, Design and Plant Patents](#)

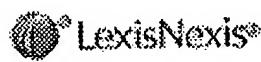
Terms: [patno=5967264](#) ([Edit Search](#) | [Suggest Terms for My Search](#))

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Segments: Appl-no, Assignee, English-abst, Filed-date, Reissue

Date/Time: Wednesday, March 25, 2009 - 3:42 PM EDT

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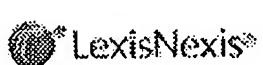
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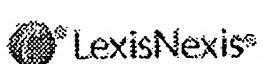
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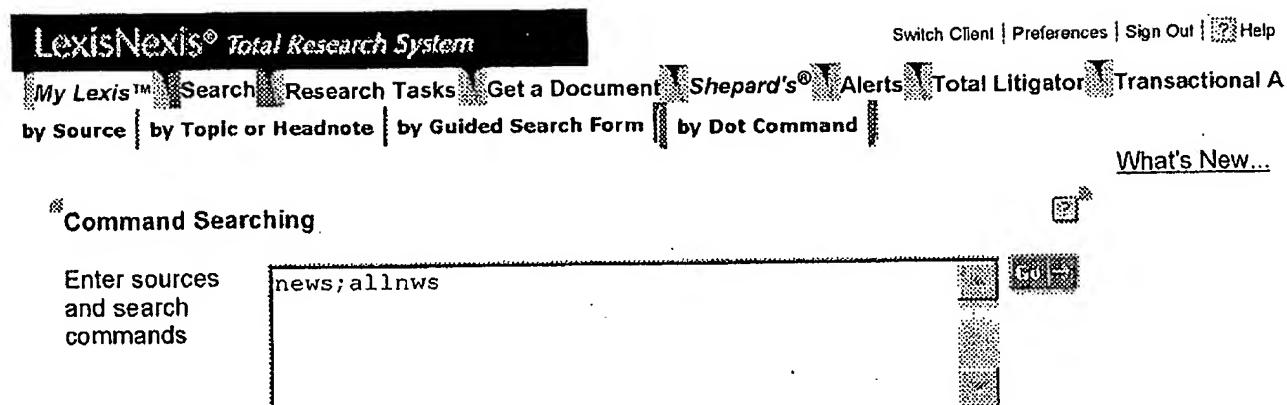
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pre/N	precedes by N words	and not	and not

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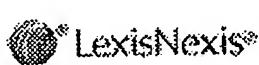
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Family Accession Nbr :

20042791173339

Patent Number :

US5967264	A 19991019	[US5967264]
EP0953948	A2 19991103	[EP-953948]
JP2000105877	A 20000411	[JP2000105877]
EP0953948	A3 20050615	[EP-953948]

Title :

Method of monitoring item shuffling in a post-scan area of a self-service checkout terminal

Patent Assignee :

NCR CORP

NCR INT INC

Orig. Patent Assignee :

NCR INTERNATIONAL INC.; 1700 South Patterson Boulevard; Dayton, Ohio
45479 (US)

Inventor(s) :

LUTZ DUSTY LEE; MASON TIMOTHY EDWARD; MALCHAK CHRISTOPHER ANDREW;
MASSIGH ALI MORADD

Application Nbr :

1998US-0071024 19980501; 1999EP-0303392 19990429; 1999JP-0161425

19990506

Priority Details :

1998US-0071024 19980501

IPC :

A47F-009/00
A47F-009/04
G01G-019/40
G01G-019/414
G01G-019/415
G06F-017/60
G06Q-050/00
G07G-001/00
G07G-001/12

IPC Advanced All :

G07G-001/12 [2006-01 A F I R M JP]; A47F-009/04 [2006-01 A - I R M EP]; G01G-019/414 [2006-01 A - I R M EP]; G01G-019/415 [2006-01 A - I R M EP]; G06Q-050/00 [2006-01 A L I R M JP]; G07G-001/00 [2006-01 A - I R M EP]

IPC Core All :

G07G-001/12 [2006 C F I R M JP]; A47F-009/00 [2006 C - I R M EP]; G01G-019/40 [2006 C - I R M EP]; G06Q-050/00 [2006 C L I R M JP]; G07G-001/00 [2006 C - I R M EP]

ECLA :

A47F-009/04D1A
G01G-019/415
G07G-001/00C2D

US Class :

ORIGINAL (O) : 186061000; CROSS-REFERENCE (X) : 235383000

FI-Terms :

G06F15/21 310Z; G07G1/12 331A; G07G1/12 361Z; G06F17/60 118

F-Terms (File forming terms) :

SB049 AA05; 5B049 AA06; 5B049 BB11; 5B049 CC36; 5B049 DD00; 5B049 DD02; 5B049 EE01; 5B049 EE02; 5B049 FF04; 5B049 GG01; 3E042 BA11; 3E042 BA17; 3E042 CA02; 3E042 CC08; 3E042 CE07; 3E042 EA01; 3E142 BA16; 3E142 CA12; 3E142 DA08; 3E142 DA11; 3E142 FA41; 3E142 GA24; 3E142 GA41

Designated States :

(EP-953948)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

Citations :

(EP-953948)

Cited in the search report

- EP0498311 (A1) (Cat. X) [EP-498311]
- US5083638 (A) (Cat. X) [US5083638]
- US5125465 (A) (Cat. X) [US5125465]
- EP0654477 (A2) (Cat. X) [EP-654477]
- DE3724204 (A1) (Cat. A) [DE3724204]
- US4661908 (A) (Cat. A) [US4661908]
- US4779706 (A) (Cat. A) [US4779706]

Citations :

- (US5967264)
- US3878365 [US3878365] 235061700R
- US4661908 [US4661908] 364405000
- US4779706 [US4779706] 186061000
- US4787467 [US4787467] 235383000
- US5125465 [US5125465] 177050000
- US5191749 [US5191749] 053502000
- US5637847 [US5637847] 235383000
- US5898158 [US5898158] 186062000

Abstract :

(EP-953948)

A method of monitoring item shuffling in a post-scan area of a self-service checkout terminal (10) having a post-scan shelf (42b), a bagwell (38) with a grocery container (40) positioned therein, and a weight scale (20) positioned so as to detect weight of items positioned both on the post-scan shelf (42b) and in the grocery container (40), includes the step of detecting removal of a first number of items from the post-scan shelf (42b) with the weight scale and generating a first weight decrease value in response thereto which corresponds to the weight of the first number of items. The method also includes the step of detecting placement of a second number of items into the grocery container (40) with the weight scale (20) and generating a first weight increase value in response thereto which corresponds to the weight of the second number of items. The method further includes the step of comparing the first weight decrease value to the first weight increase value and generating a first match control signal in response thereto if the first weight decrease value matches the first weight increase value. <IMAGE>

Object of Invention :

(EP-953948)

The present invention relates generally to a retail checkout terminal, and more particularly to a method of monitoring item shuffling in a post-scan area of a self-service checkout terminal.

It is an object of the invention to provide a self-service checkout terminal which overcomes one or more of the above-mentioned drawbacks. According to the present invention there is provided a method of monitoring item shuffling in a post-scan area of a self-service checkout terminal, with the post-scan area including a post-scan surface, characterized by the steps of detecting removal of a first number of items from the post-scan surface and generating a first weight decrease value in response thereto which corresponds to the weight of the first number of items,

Advantages / Prev. Drawbacks :

(EP-953948)

Moreover, it is desirable to allow a customer to move or shuffle items which have previously been scanned or otherwise entered in the self-service checkout terminal so as to facilitate operation of the terminal.

In particular, it is desirable to provide a security system for the self-service checkout terminal that reduces the number of occasions in which a customer places an unscanned or otherwise unentered item into a grocery bag or a post-scan shelf.

However, in the case of a self-service checkout terminal, the terminal

itself must provide the necessary security. For example, if the processing unit 26 determines that the user placed an item into the post-scan area 17 without having previously scanned or otherwise entered the item into the terminal 10 in the manner discussed above, the processing unit 26 causes a message to be displayed on the display monitor 32 which instructs the user to remove the item from the post-scan area 17 and thereafter properly enter the item. However, if the value of IX does not match the value of DX, the routine 56 advances to step 84.

Independent Claims :

(EP-953948)

1. A method of monitoring item shuffling in a post-scan area of a self-service checkout terminal (10), with the post-scan area including a post-scan surface (38,42b), characterized by the steps of detecting removal of a first number of items from the post-scan surface(38,42b) and generating a first weight decrease value in response thereto which corresponds to the weight of the first number of items, detecting placement of a second number of items onto the post-scan surface and generating a first weight increase value in response thereto which corresponds to the weight of the second number of items, and comparing the first weight decrease value to the first weight increase value and generating a first match control signal in response thereto if the first weight decrease value matches the first weight increase value.

Update New docs :

2000-26

1 / 2 LGST - @EPO

Patent Number :

US5967264 A 19991019 [US5967264] (A) Patent

Application Number :

US7102498 19980501 [1998US-0071024]

Publication actions :

19980501 US-API [POS; EXM]

FILING DETAILS

US7102498 19980501 [1998US-0071024]

19991019 US-A [POS; EXM]

Patent

US5967264 A 19991019 [US5967264]

Action Taken :

20020423 US/RF-A [OPP]

REISSUE APPLICATION FILED

EFFECTIVE DATE: 20011019

Lasted Event Group :

OPP

Alive

Update Code :

2003-22

2 / 2 LGST - @EPO

Patent Number :

EP0953948 A2 19991103 [EP-953948]

(A2) Application published without search report

EP0953948 A3 20050615 [EP-953948]

(A3) Search report

Application Number :

EP99303392 19990429 [1999EP-0303392]

Publication actions :

19990429 EP-API [POS; EXM]

FILING DETAILS

EP99303392 19990429 [1999EP-0303392]
19991103 EP-A2 [POS; EXM]
Application published without search report
EP0953948 A2 19991103 [EP-953948]
20050615 EP-A3 [POS; EXM]

Search report
EP0953948 A3 20050615 [EP-953948]

Action Taken :

19991103 EP/AK-A [POS; ADM]

DESIGNATED CONTRACTING STATES:

BENANNTE VERTRAGSSTAATEN

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19991103 EP/AX-A [POS; ADM]
EXTENSION OF THE EUROPEAN PATENT TO
ERSTRECKUNG DES EUROPÄISCHEN PATENTS AUF
AL;LT;LV;MK;RO;SI

20000126 EP/RIN1-A [NMC; ADM]

INVENTOR (CORRECTION)

ERFINDER (KORR.)

MASON, TIMOTHY EDWARD

20000126 EP/RIN1-A [NMC; ADM]

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20000126 EP/RIN1-A [NMC; ADM]

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INVENTOR (CORRECTION)

ERFINDER (KORR.)

MASSIGH, ALI MORADD

20050615 EP/AK-A [POS; ADM]

DESIGNATED CONTRACTING STATES:

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ERSTRECKUNG DES EUROPÄISCHEN PATENTS AUF

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CLASSIFICATION (CORRECTION)

KLASSIFIKATION (KORR.)

7 G01G-019/414 B

20050615 EP/RIC1-A [CCL]

CLASSIFICATION (CORRECTION)

KLASSIFIKATION (KORR.)

7 G01G-019/415 B

20050615 EP/RIC1-A [CCL]

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KLASSIFIKATION (KORR.)

7 A47F-009/04 B

20050615 EP/RIC1-A [CCL]
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7 G07G-001/00 A

20060208 EP/17P-A [POS; EXM]
REQUEST FOR EXAMINATION FILED
PRUEFUNGSANTRAG GESTELLT
EFFECTIVE DATE: 20051215

20060308 EP/AKK-A [POS; ADM; PIF]
PAYMENT OF DESIGNATION FEES
ZAHLUNG VON BENENNUNGSGEBUEHREN
DE FR GB

20080723 EP/18W-A [NEG; NIF]
WITHDRAWN
ZURUECKGENOMMEN
EFFECTIVE DATE: 20080618

Lasted Event Group :

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Update Code :

2008-30

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Patent Number :

5,967,264 A 19991019 [US5967264]

Patent Assignee :

NCR Corp

Actions :

20011019 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20020423
REISSUE REQUEST NUMBER: 10/038377
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 3652

Reissue Patent Number:

1 / 1 PLUSPAT - @Questel - image

Patent Number :

US5967264 A 19991019 [US5967264]

Title :

(A) Method of monitoring item shuffling in a post-scan area of a self-service checkout terminal

Patent Assignee :

(A) NCR CORP (US)

Patent Assignee :

NCR Corporation, Dayton OH (US)

Inventor(s) :

(A) LUTZ DUSTY L (US); MALCHAK CHRISTOPHER A (US); MASON TIMOTHY E (US); VASSIGH ALI M (US)

Application Nbr :

US7102498 19980501 [1998US-0071024]

Priority Details :

US7102498 19980501 [1998US-0071024]

Intl Patent Class :

(A) A47F-009/04

IPC Advanced All :

G07G-001/12 [2006-01 A F I R M JP]; A47F-009/04 [2006-01 A - I R M EP];
G01G-019/414 [2006-01 A - I R M EP]; G01G-019/415 [2006-01 A - I R M
EP]; G06Q-050/00 [2006-01 A L I R M JP]; G07G-001/00 [2006-01 A - I R M
EP]

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G07G-001/00 [2006 C - I R M EP]

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G01G-019/415
G07G-001/00C2D

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ORIGINAL (O) : 186061000; CROSS-REFERENCE (X) : 235383000

Document Type :

Corresponding document

Citations :

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-US4661908 [US4661908] 364405000
-US4779706 [US4779706] 186061000
-US4787467 [US4787467] 235383000
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-US5191749 [US5191749] 053502000
-US5637847 [US5637847] 235383000
-US5898158 [US5898158] 186062000

Publication Stage :

(A) United States patent

Abstract :

A method of monitoring item shuffling in a post-scan area of a self-service checkout terminal having a post-scan shelf, a bagwell with a grocery container positioned therein, and a weight scale positioned so as to detect weight of items positioned both on the post-scan shelf and in the grocery container, includes the step of detecting removal of a first number of items from the post-scan shelf with the weight scale and generating a first weight decrease value in response thereto which corresponds to the weight of the first number of items. The method also includes the step of detecting placement of a second number of items into the grocery container with the weight scale and generating a first weight increase value in response thereto which corresponds to the weight of the second number of items. The method further includes the step of comparing the first weight decrease value to the first weight increase value and generating a first match control signal in response thereto if the first weight decrease value matches the first weight increase value.

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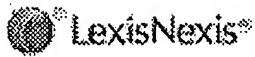
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